



0570  
1/27

# ENTERED

OIEP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/090,090B

DATE: 12/10/2002

TIME: 08:13:37

Input Set : A:\20084yca.txt

Output Set: N:\CRF4\12102002\J090090B.raw

4 <110> APPLICANT: Chen, Fang  
 6 <120> TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NUCLEAR  
 7 RECEPTOR PROTEINS, nNR-7 AND nNR7-1  
 10 <130> FILE REFERENCE: 20084YCA  
 12 <140> CURRENT APPLICATION NUMBER: 10/090090B  
 C--> 13 <141> CURRENT FILING DATE: 2002-11-19  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US98/26364  
 16 <151> PRIOR FILING DATE: 1998-12-11  
 18 <150> PRIOR APPLICATION NUMBER: 09/209,069  
 19 <151> PRIOR FILING DATE: 1998-12-10  
 21 <150> PRIOR APPLICATION NUMBER: 60/104,251  
 22 <151> PRIOR FILING DATE: 1998-10-14  
 24 <150> PRIOR APPLICATION NUMBER: 60/069,401  
 25 <151> PRIOR FILING DATE: 1997-12-12  
 27 <160> NUMBER OF SEQ ID NOS: 24  
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 3093  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Homo sapien (human)  
 36 <400> SEQUENCE: 1  
 37 tacgccaaagc tcgaaattaa ccctcactaa agggaacaaa agctggagct ccaccgcggt 60  
 38 ggcggccgct ctagaactag tggatccccc gggctgcagg aattcgaatt ctcataacct 120  
 39 atgactagga cgggaagagg aagcactgcc ttacttcag tgggaatctc ggcctcagcc 180  
 40 tgcaagccaa gtgttcacag tgagaaaagc aagagaataa gctaatactc ctgtcctgaa 240  
 41 caaggcagcg gtccttgggt aaagctactc ctgatcgat cctttgcacc ggattgttca 300  
 42 aagtggaccc caggggagaa gtcggagcaa agaacttacc accaagcagt ccaagaggcc 360  
 43 cagaagcaaa cctggagggt agacccaaag aaagctggaa ccatgctgac tttgtacact 420  
 44 gtgaggacac agagtctgtt cctggaaagc ccagtgtcaa cgcagatgag gaagtcggag 480  
 45 gtccccaaat ctgccgtgta tgtggggaca aggccactgg ctatcacttc aatgtcatga 540  
 46 catgtgaagg atgcaagggc tttttcagga gggccatgaa acgcaacgcc cggctgaggt 600  
 47 gcccttccg gaaggcgcc tgcgagatca cccggaagac ccggcgacag tgccaggcct 660  
 48 gccgcctgcg caagtgcctg gagagcggca tgaagaagga gatgatcatg tccgacgagg 720  
 49 ccgtggagga gaggcgggcc ttgatcaagc ggaagaaaag tgaacggaca gggactcagc 780  
 50 cactgggagt gcaggggctg acagaggagc agcggatgat gatcaggag ctgatggacg 840  
 51 ctcatgatga aacctttgac actaccttct cccatttcaa gaatttccgg ctgccagggg 900  
 52 tgcttagcag tggctgcgag ttgccagagt ctctgcaggc cccatcgagg gaagaagctg 960  
 53 ccaagtggag ccagggtccg aaagatctgt gctctttgaa ggtctctctg cagctgcggg 1020  
 54 gggaggatgg cagtgtctgg aactacaaac ccccagccga cagtggcggg aaagagatct 1080  
 55 tctccctgct gcccacatg gctgacatgt caacctacat gttcaaaggc atcatcagct 1140  
 56 ttgccaaagt catctcctac ttcagggact tgcccacga ggaccagatc tccctgctga 1200  
 57 agggggccgc tttcgagctg tgtcaactga gattcaacac agtgttcaac gcggagactg 1260  
 58 gaacctggga gtgtggccg ctgtcctact gcttgaaga cactgcagggt ggcttccagc 1320

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59 aacttctact ggagcccatg ctgaaattcc actacatgct gaagaagctg cagctgcatg 1380
60 aggaggagta tgtgtgatg caggccatct cctctttctc cccagaccgc ccagggtgtgc 1440
61 tgcagcaccg cgtggtggac cagctgcagg agcaattcgc cattactctg aagtcctaca 1500
62 ttgaatgcaa tcggccccag cctgtctata ggttcttggt cctgaagatc atggctatgc 1560
63 tcaccgagct ccgcagcatc aatgtctcag acaccacagc gctgtctgcgc atccaggaca 1620
64 tacacccctt tgctacgccc ctcatgcagg agttgttcgg catcacaggt agctgagcgg 1680
65 ctgcccttgg gtgacacctc cgagaggcag ccagaccagc agccctctga gccgccactc 1740
66 ccgggccaag acagatggac actggcaaga gccgacaatg cctgtctggc ctgtctccct 1800
67 aggggaattcc tgctatgaca gctggctagc attcctcagg aaggacatgg gtgcccccca 1860
68 cccccagttc agtctgtagg gagtgaagcc acagattctt acgtggagag tgcactgacc 1920
69 tgtaggtcag gaccatcaga gaggcaaggt tgccctttcc ttttaaaagg ccctgtggtc 1980
70 tggggagaaa tccctcagat cccactaaag tgtcaagggtg tgggaaggac caagcgacca 2040
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72 tcattgctac ctctaatagt cctgtctccc acttcccact cgttcccctc ctcttccgag 2160
73 ctgctttgtg ggctccaggc ctgtactcat cggcaggtgc atgagtatct gtgggagtcc 2220
74 tctagagaga tgagaagcca ggaggcctgc accaaatgtc agaagcttgg catgacctca 2280
75 ttccggccac atcattctgt gtctctgcat ccatttgaac acattattaa gcaccgataa 2340
76 taggtagcct gctgtggggt atacagcatt gactcagata tagatcctga gctcacagag 2400
77 tttatagtta aaaaaacaaa cagaaacaca aacaatttgg atcaaaagga gaaatgataa 2460
78 gtgacaaaag cagcacaagg aatttccctg tgtggatgct gagctgtgat ggcgggcact 2520
79 gggtagccaa gtgaagggtc ccgaggacat gagtctgtag gagcaagggc acaaactgca 2580
80 gctgtgagtg cgtgtgtgtg atttggtgta ggtaggctctg tttgccactt gatggggcct 2640
81 gggtttgttc ctggggctgg aatgctgggt atgctctgtg acaaggctac gctgacaatc 2700
82 agttaaacac accggagaag aaccattttac atgcacctta tatttctgtg tacacatcta 2760
83 ttctcaaagc taaagggtat gaaagtgcct gccttgttta tagccacttg tgagtaaaaa 2820
84 tttttttgca ttttcacaaa ttatacttta tataaggcat tccacaccta agaactagtt 2880
85 ttgggaaatg tagccctggg tttaatgtca aatcaaggca aaaggaatta aataatgtac 2940
86 ttttggttag aggggtaaac ttttttggcc tttttctggg gaaaataatg tgggggtgtg 3000
87 ggaattcgaa ttcgatatca agcttatcga taccgtcgac ctcgaggggg ggcccgtac 3060
88 ccaattcgcc ctatagttag tcgtattaca att 3093

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90 &lt;210&gt; SEQ ID NO: 2

91 &lt;211&gt; LENGTH: 466

92 &lt;212&gt; TYPE: PRT

93 &lt;213&gt; ORGANISM: Homo sapien (human)

95 &lt;400&gt; SEQUENCE: 2

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96 Ser Ile Leu Cys Thr Gly Leu Phe Lys Val Asp Pro Arg Gly Glu Val
97 1 5 10 15
98 Gly Ala Lys Asn Leu Pro Pro Ser Ser Pro Arg Gly Pro Glu Ala Asn
99 20 25 30
100 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
101 35 40 45
102 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
103 50 55 60
104 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
105 65 70 75 80
106 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
107 85 90 95
108 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
109 100 105 110

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110 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
111          115          120          125
112 Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
113          130          135          140
114 Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
115 145          150          155          160
116 Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
117          165          170          175
118 Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys
119          180          185          190
120 Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly
121          195          200          205
122 Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser
123          210          215          220
124 Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser
125 225          230          235          240
126 Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn
127          245          250          255
128 Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu
129          260          265          270
130 Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser
131          275          280          285
132 Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln
133          290          295          300
134 Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe
135 305          310          315          320
136 Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu
137          325          330          335
138 Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu
139          340          345          350
140 Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His
141          355          360          365
142 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp
143          370          375          380
144 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln
145 385          390          395          400
146 Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro
147          405          410          415
148 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu
149          420          425          430
150 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp
151          435          440          445
152 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr
153          450          455          460
154 Gly Ser
155 465
157 <210> SEQ ID NO: 3
158 <211> LENGTH: 18
159 <212> TYPE: DNA

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Input Set : A:\20084yca.txt

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160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Oligonucleotide
165 <400> SEQUENCE: 3
166 cttcaatgtc atgacatg 18
168 <210> SEQ ID NO: 4
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Oligonucleotide
176 <400> SEQUENCE: 4
177 ccaaattctgc cgtgtatgtg 20
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 19
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligonucleotide
187 <400> SEQUENCE: 5
188 gtcagtgcac tctccacgt 19
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Oligonucleotide
198 <400> SEQUENCE: 6
199 tgcagctggt ccaccacgcg 20
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 19
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Oligonucleotide
209 <400> SEQUENCE: 7
210 gggatatgctc tgtgacaag 19
212 <210> SEQ ID NO: 8
213 <211> LENGTH: 19
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Oligonucleotide
220 <400> SEQUENCE: 8
221 aggcaggcac ttcatacc 19
223 <210> SEQ ID NO: 9
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence

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Output Set: N:\CRF4\12102002\J090090B.raw

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228 <220> FEATURE:
229 <223> OTHER INFORMATION: Oligonucleotide
231 <400> SEQUENCE: 9
232 tttcgagctt ccaggttcat 20
234 <210> SEQ ID NO: 10
235 <211> LENGTH: 20
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Oligonucleotide
242 <400> SEQUENCE: 10
243 ctcccaaact ctgcctggtg 20
245 <210> SEQ ID NO: 11
246 <211> LENGTH: 20
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Oligonucleotide
253 <400> SEQUENCE: 11
254 cgggagccac acttcacat 20
256 <210> SEQ ID NO: 12
257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Oligonucleotide
264 <400> SEQUENCE: 12
265 gctcacttct gcgctgtctg 20
267 <210> SEQ ID NO: 13
268 <211> LENGTH: 20
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Oligonucleotide
275 <400> SEQUENCE: 13
276 ttccgggctc ccagagtcac 20
278 <210> SEQ ID NO: 14
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Oligonucleotide
286 <400> SEQUENCE: 14
287 cagaagacct gcctgatctg 20
289 <210> SEQ ID NO: 15
290 <211> LENGTH: 20
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/090,090B

DATE: 12/10/2002

TIME: 08:13:38

Input Set : A:\20084yca.txt

Output Set: N:\CRF4\12102002\J090090B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date